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19 February 2015

Jim Fleer  
Oxford Environmental & Safety, Inc  
14348 Nieman Rd.  
Overland Park, KS 66221

RE: Arkwood Monthly Sampling  
SDG Number: 1502169

Enclosed are the results of analyses for samples received by the laboratory on 12-Feb-15 09:30. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
Temperature on Receipt	3.0°C

Sincerely,

A handwritten signature in blue ink, appearing to read "Norma James / Teresa Coins".

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Norma James  
President

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9534846

19 February 2015

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Oxford Environmental & Safety, Inc  
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Overland Park, KS 66221  
Project: Arkwood Monthly Sampling



Date Received: 12-Feb-15 09:30

## **CASE NARRATIVE**

Sample Delivery Group – 1502169

**One OR more of the qualifiers described below may appear in this report.**

### **QUALITY CONTROL QUALIFIERS:**

<u>Qualifier</u>	<u>Description</u>
E20	Sample used as "parent" for the associated analytical batch.
%D3/S-01 / E1	Surrogate failed to recover within acceptance criteria (%D3/S-01). Results associated with this surrogate were qualified as "estimated" (E1).
B	Present in the Associated Blank
B1	Present in Blank, but Not In the Sample.
%D2 / E5	Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCSD) failed to recover with acceptance criteria (%D2). Associated results were qualified as "estimated" (E5).
%D1	Matrix spike (M ) and/or Matrix spike Duplicate (M D) failed acceptance criteria
MBA	Failed criteria due the high concentration of analyte in the parent sample.
MBI	Failed criteria due an interference in the parent sample.
%D3	Quality Control Surrogate failed acceptance criteria.
NREC	Quality Control Surrogate failed.

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#### ANALYTICAL RESULTS

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Lab Number: 1502169-01  
Sample Name: Mouth  
Date/Time Collected: 2/11/15 10:45  
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	118		2/13/15 17:49	A502181	8270D, Rev 4, 2007
2,4,6-Tribromophenol [surr]	%	97.8		2/13/15 16:45	A502181	8270D, Rev 4, 2007
2-Fluorophenol [surr]	%	69.7		2/13/15 16:45	A502181	8270D, Rev 4, 2007
Phenol-d5 [surr]	%	50.0		2/13/15 16:45	A502181	8270D, Rev 4, 2007

#### ANALYTICAL RESULTS

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Lab Number: 1502169-02RE1  
Sample Name: Weir  
Date/Time Collected: 2/11/15 10:15  
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 1.00	E1	2/18/15 16:42	A502181	8270D, Rev 4, 2007
2,4,6-Tribromophenol [surr]	%	82.7		2/18/15 16:42	A502181	8270D, Rev 4, 2007
2-Fluorophenol [surr]	%	25.5	%D3	2/18/15 16:42	A502181	8270D, Rev 4, 2007
Phenol-d5 [surr]	%	31.5		2/18/15 16:42	A502181	8270D, Rev 4, 2007

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## QUALITY CONTROL RESULTS

### Semivolatiles - Quality Control Analyzed: 13-Feb-15 14:59 By: KR

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A502181 - EPA 3510C MS

##### Blank (A502181-BLK1)

Prepared & Analyzed: 13-Feb-15

Pentachlorophenol	ND	1.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	37.7		"	40.0		94.1	33-148			
Surrogate: 2-Fluorophenol	29.4		"	40.0		73.5	42.5-82.1			
Surrogate: Phenol-d5	20.7		"	40.0		51.9	30-61			

##### LCS (A502181-BS1)

Prepared & Analyzed: 13-Feb-15

Pentachlorophenol	39.6	1.00	ug/L	40.0		99.0	56-118			
Surrogate: 2,4,6-Tribromophenol	39.9		"	40.0		99.8	66-132			
Surrogate: 2-Fluorophenol	28.1		"	40.0		70.2	41-72			
Surrogate: Phenol-d5	23.0		"	40.0		57.5	29-58			

##### Matrix Spike (A502181-MS1)

Source: 1502150-03

Prepared & Analyzed: 13-Feb-15

Pentachlorophenol	31.9	1.00	ug/L	40.0	1.25	76.6	59.5-122			
Surrogate: 2,4,6-Tribromophenol	30.5		"	40.0		76.2	55.9-134			
Surrogate: 2-Fluorophenol	17.9		"	40.0		44.8	17.1-87.4			
Surrogate: Phenol-d5	14.8		"	40.0		37.0	14.7-66.9			

##### Matrix Spike Dup (A502181-MSD1)

Source: 1502150-03

Prepared & Analyzed: 13-Feb-15

Pentachlorophenol	34.3	1.00	ug/L	40.0	1.25	82.7	59.5-122	7.28	8.94	
Surrogate: 2,4,6-Tribromophenol	30.0		"	40.0		75.1	55.9-134			
Surrogate: 2-Fluorophenol	17.7		"	40.0		44.2	17.1-87.4			
Surrogate: Phenol-d5	14.4		"	40.0		36.0	14.7-66.9			

## QUALIFIER(S)

\*%D3: Surrogate Percent Recovery Does Not Meet Laboratory Acceptance Criteria

\*E1: Estimated Result Due to Surrogate Failure

All Analy i performed according to EPA approved methodology when available  
SW 846, Revi ed December, 1996; EPA 600/4 79 020, Revi ed March, 1983; Standard Method  
In trument calibration and quality control ample performed at or above frequency pecified in analytical method

Reviewed by

*Norma James / Teresa Coin*

Norma Jame and/or Tere a Coin  
Technical Director and/or QA Officer

[illegible]